A Scientometric Study on Doctoral Dissertations in the subject of Zoology awarded by Universities in Western Maharashtra

A Resume submitted to

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For the registration as a research scholar
For the degree of Doctor of Philosophy (Ph.D) in
Library and Information Science under the faculty of Interdisciplinary Studies

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1. Introduction :

The term Scientometric originated as a Russian term for the application of Quantitative methods of the history of science in 1969. Scientometric is mainly used for study of all aspect of literature in science and technology. It has gained wide recognition after the foundation of the journal scientometrics by Tibor Broun in 1978.

Scientometrics refers to the measurement of research outputs. The method and material which are used to apply statistical techniques includes Bibliometrics, Scientometric and informatrics. These techniques are used to analyse various quantitative and qualitative aspects of Publications. Scientometrics is related to the scattering and growth of literature, Author productivity, Obsolescence of documents, distribution of scientific literature by country, by language etc. which helps to monitor the growth and pattern of research.

According to Garfield, Scientometrics is " The study of the measurement of scientific and technological progress" (Garfield 1979).

Prichard, described the bibliometrics as the application of mathematics and statistical method to books and other media. (Prichard 1969).

Tgue – Sutcliffe pointed scientometrics as “Study of quantitative aspects of science as discipline or economic activity ".

Scientometrics applies the blibliometrics techniques to science and examine the development of sciences.

2. Statement of the Problem :

The present study includes the study of research in the subject of Zoology in the reputed universities of Maharashtra. This will helps for enrichment of academic research and publications. A Scientometric Study on Doctoral Dissertations in the subject of Zoology awarded by Universities in Western Maharashtra is core aspects of this research.

3. Significance of Research:

If we look at this research from the point of view of prospective of its research values. It is found that the reading material in zoology has not yet been analysed.

Therefore, in the concerned subject the readers are not exposed with the proper reading material. Such as books, periodicals etc. The reading material which is frequently used and used off and again can get easy access.

The reader will understand the literature. It will also help the library to purchased reading material and to know the trend in the subject of Zoology.

This kind of information is not available and therefore this study is aimed at providing convenient information in this regards. This will definitely solved the difficulties that are mentioned above. Therefore this study from these prospective is very important.

4. Review of Literature:

Dr. P Rajemdran and others in their research paper entitled Scientometric analysis of contributions to journal of scientific and industrial research has done Scientometrics analysis of 633 articles during 2005-2009 .They have concluded that highest number of research paper contributed by multiple authors. The majority of the contribution found to be Indian author during the study period.

Dr.K.G.Pillai Sudhier and V.Dileep Kumar in their article " Scientometric study of Doctoral Dissertations in Biochemistry in the University of Kerala, India stated that, the systematic information sources used scientifically for indebt understanding of Scientometrics allows interferences regarding research approach and citation behaviour to be drawn.

Garfield (1972) described a method to evaluate scientific journals by the frequency and impact of citations using data from the Science Citation Index

Mahapatra and Panda (2004)conducted study on bibliometric analysis of 118 research papers on health literature from Orissa in 50 Indian and foreign journals. The author found that Journal of Communicable Diseases and the Indian Journal of Malaria were ranked highest position in publishing papers on health literature of Orissa.

Gupta and Adarsh Bala (2010) analysed Indian Science and Technology publications of1996-2010..The study found that India contributed 538609 papers in science and technology during 1996 to 2010 with an annual average growth rate of 9.32 percent. The study found that top 100 most productive Indian organizations contributed 54.92 per cent share (295827 papers).

5. Scope and limitations :

Research has selected the statement of problem. "A Scientometric Study on Doctoral Dissertations in the subject of Zoology awarded by Universities in Western Maharashtra".

The present research is to be undertaken with special reference to Shivaji University, Kolhapur, Punyashlok Ahilyadevi Holkar Solapur University, Solapur & Savitribai Phule Pune University,Pune etc.

The Researcher has taken 150 latest Doctoral Dissertations among these three Universities in Western Maharashtra.

6. Objectives :

The main objectives of this study are to identify -

1. To find out various type of documents used by researches in Zoology.
2. To analyse the distribution of citations according to language wise, Authorship pattern, Chronological and Geographical etc.
3. To examine the core Journals, Authors and publication used the study.
4. To measure half life of journals and books used in study.
5. To examine the applicability of Bradford's law of Scattering to the pattern of Journal used by the researcher in the Zoology.

7. Hypothesis :

1. The research Scholars in the Zoology rely upon researchers.
2. The books of Western countries are mostly referred by researchers.
3. Books published in English language are most used by research scholar than the others.
4. Citation data in Zoology Subject Satisfied the Bradford's Law of Scattering.
5. Journal published in English Language are mostly used in their research work.

8. **Research methodology:**

For the present research work the Scientometric research methodology will be used for the analysis of present topic in detailed fashion .

9. **Data Collection :**

In this research work most of the data is to be collected from the bibliographic form , All the Doctorial Dissertations in the subject of Zoology. It consist more than Thirty Thousand (Approximately) Citations.

10. **Data Analysis :**

The researcher has planned the reference in his research document by using MS Excel Sheet through computer.

This will be analysed as per the objectives of the study.

In this process Charts, Pie charts, Maps, Graphs etc. Likely to be used.

12. **Conspectus :**

1. Introduction :

1.1 Statement of the problem

1.2 Significance of research
1.3 Review of literature
1.4 cope and limitations
1.5 Objectives
1.6 Hypothesis
1.7 Research Method
1.8 Data Collection
1.9 Data Analysis
1.10 Conspectus

2. Literature Review

3. Data Collection, Analysis and Interpretation

4. Findings and Conclusion.

Bibliography

Appendix

Plan of Work

Sr.No.	Year	Research Work Plan
01	**First Year**	Detailed Study regarding related literature and collection and compilation of secondary data. Present the progress report time to time to university.
02.	**Second Year**	Collection and Study of required data as per research topics and prepare the topics as per chapter Scheme.
03.	**Third Year**	Analysis and interpretation of primary data and finalize the thesis and submission.

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